

REQUEST FOR PROPOSAL

COUNTY OF SAN BERNARDINO
PURCHASING DEPARTMENT

Date: September 17, 2007

Proposal No. **J35**

Materials and/or Services: **AWD Motor Grader**

To Be Delivered To: County of San Bernardino
Public Works Operations
825 E. 3rd Street
San Bernardino, CA 92415-0845

Page 1 of 17 Pages

Submit each individual proposal in separate sealed envelope with proposal number marked on outside to:

County Purchasing Agent
777 East Rialto Avenue
San Bernardino, CA 92415-0760

BEFORE: Tuesday, October 16, 2007, 11 AM

For further information, call: Zachary L. Avey
Deputy Purchasing Agent
(909) 387-2070

INSTRUCTIONS AND CONDITIONS

1. All prices and notations must be typewritten or printed in ink. No erasures permitted. Mistakes may be crossed out and corrections made adjacent, and must be initialed in ink by person signing quotation.
2. State brand, or make, on each item. If quoting an article exactly as specified, the words "or equal" must be stricken out by the vendor. If quoting on other than make, model or brand specified, the manufacturer's name and the catalog number must be given, or descriptive cut and information attached to the quotation.
3. Quote on each item separately. Prices should be stated in units specified herein.
4. Each quotation must be in separate sealed envelope with proposal number on outside, and must be received by County Purchasing Agent, 777 East Rialto Avenue, San Bernardino, CA 92415-0760 no later than the hour and day specified hereon, at which time it will be publicly opened and read.
5. Time of delivery is a part of the consideration and must be stated in definite terms, and must be adhered to. If time varies on different items, the vendor shall so state in the column provided, opposite each item.
6. Terms of less than 30 days for cash discount will be considered as net.
7. All quotations must be signed with the firm's name and by a responsible officer or employee. Obligations assumed by such signatures must be fulfilled.
8. Unless otherwise definitely specified, the prices quoted herein do not include California Sales or Use Tax. For questions regarding taxes contact the State of California Franchise Tax Board.
9. No charge for packing, drayage, or for any other purpose will be allowed over and above the prices quoted on this sheet.
10. The right is reserved, unless otherwise stated, to accept or reject any or all quotations, or any part thereof, either separately or as a whole, or to waive any informality in a proposal.
11. The County recognizes that price is only one of several criteria to be used in judging a product or service, and the County is not legally bound to accept the lowest quote.
12. Samples of items, when required, must be furnished free of expense to the County; and if not destroyed by tests, will upon request be returned at vendor's expense.
13. In case of default by the vendor, the County of San Bernardino may procure the articles or service from other sources and may deduct from unpaid balance due the vendor, or may collect against the bond of surety, or mail bill for excess costs so paid, and the prices paid by the County of San Bernardino shall be considered the prevailing market prices paid at the time such purchase is made.
14. Cost of transportation, handling, and/or inspection on deliveries, or offers for delivery, which do not meet specifications, will be for the account of the vendor.
15. The vendor shall hold the County of San Bernardino, its officers, agents,

servants and employees, harmless and defend same from liability of any nature or kind on account of use of any copyright, or uncopyrighted composition, secret process, patented or unpatented invention, article, or appliance furnished or used under this quotation.

16. Neither party will be held liable for failure or delay in fulfillment if hindered or prevented by fire, strikes, or Acts of God. (Force Majeure)

17. Quotations are subject to acceptance at any time within the manufacturers build.

18. Verify your quotations before submission, as they cannot be withdrawn or corrected after being opened.

19. RETURN THIS SHEET WHETHER OR NOT YOU QUOTE A PRICE. If you do not quote, state your reason; otherwise your name may be removed from the mailing list.

20. Accounts paid for transportation of property to the County of San Bernardino are exempt from Federal Transportation Tax. An exemption certificate is not required where the shipping papers show the consignee as San Bernardino County, as such papers may be accepted by the carrier as proof of the exempt character of the shipment.

21. To be considered, each vendor must have an approved Vendor Application on file with the Purchasing Department. Vendors must register online through the County Website at <http://www.sbcounty.gov/purchasing/>.

22. The Vendor agrees to comply with Executive Orders 11246, 11375, 11625, 12138, 12432, 12250, Title VII of the Civil Rights Act of 1964, the California Fair Employment Practice Act, Equal Employment Opportunity, San Bernardino County Emerging Small Business Enterprise program, and other applicable Federal, State, and County laws, regulations, and policies relating to equal employment and contracting opportunities, including laws and regulations hereafter enacted. The articles covered by the quotation must conform with safety orders of OSHA, CALOSHA and/or NIOSHA, and OSH-POD.

23. Assignment of the contract by the vendor to other suppliers/contractors must be approved by the Purchasing Agent in writing.

24. Prevailing Wages: Where labor is required for public work as a part of any requirements covered by this request for proposal, pursuant to the provisions of the Labor Code of the State of California, contractor shall pay no less than those minimum wages.

25. Conflict of Interest: Your signature hereon certifies that no County employee, whose position in the County service enables them to influence any award of your offer or any competing offer, shall have any direct or indirect financial interest in any transaction resulting from this request for proposal.

26. Vendors making delivery or providing services on County premises shall carry liability insurance and Worker's Compensation coverage in accordance with the County's Standard Practice requirements.

IMPORTANT: Place signed proposal in envelope, **seal** envelope and show **proposal number** on outside. Return proposal to the County Purchasing Agent, 777 East Rialto Avenue, San Bernardino, CA 92415-0760
PRICES QUOTED F.O.B. DESTINATION UNLESS OTHERWISE STATED.

The following must be filled in by the contractor in submitting his proposal:

Date _____

Company _____

Delivery will be made in _____ days
from receipt of order unless otherwise noted.

Address _____

Cash Discount Terms _____

City & State _____ Zip _____

Signed By _____

Telephone No. (_____) _____

A. STANDARD TERMS AND CONDITIONS

1.0 IMPROPER CONSIDERATION:

Vendor shall not offer (either directly or through an intermediary) any improper consideration such as, but not limited to, cash, discounts, service, the provision of travel or entertainment, or any items of value to any officer, employee or agent of the County in an attempt to secure favorable treatment regarding the award of this proposal.

The County, by written notice, may immediately terminate any contract resulting from this proposal process if it determines that any improper consideration as described in the preceding paragraph was offered to any officer, employee or agent of the County with respect to the proposal and award process. This prohibition shall apply to any amendment, extension or evaluation process once a contract has been awarded.

Vendor shall immediately report any attempt by a County officer, employee or agent to solicit (either directly or through an intermediary) improper consideration from Vendor. The report shall be made to the supervisor or manager charged with supervision of the employee or to the County Administrative Office.

In the event of a termination under this provision, the County is entitled to pursue any available legal remedies.

2.0 INACCURACIES OR MISREPRESENTATIONS:

If in the course of the RFP process or in the administration of a resulting contract, County determines that Vendor has made a material misstatement or misrepresentation or that materially inaccurate information has been provided to County, Vendor may be terminated from the RFP process or in the event a contract has been awarded, the contract may be immediately terminated.

3.0 EMPLOYMENT OF FORMER COUNTY OFFICIALS:

Vendors are required to provide information on former County of San Bernardino administrative officials (as defined below) who are employed by or represent your business. The information provided must include a list of former County administrative officials who terminated County employment within the last five years and who are now officers, principals, partners, associates or members of the business. This list should also include the employment and/or representative capacity and the dates these individuals began employment with or representation of your business.

For purposes of this section, "County administrative official" is defined as a member of the Board of Supervisors or such officer's staff, County Administrative Officer or member of such officer's staff, County department or group head, assistant department or group head, or any employee in the Exempt Group, Management Unit or Safety Management Unit.

Failure to provide this information may result in the response to the Request for Proposal being deemed non-responsive.

4.0 DISCLOSURE OF CRIMINAL AND CIVIL PROCEEDINGS:

The County reserves the right to request the information described herein from the vendor selected for contract award. Failure to provide the information may result in a disqualification from the selection process and no award of contract to the vendor. The County also reserves the right to obtain the requested information by way of a background check performed by an investigative firm. The selected vendor also may be requested to provide information to clarify initial responses. Negative information provided or discovered may result in disqualification from the selection process and no award of contract.

The selected vendor may be asked to disclose whether the firm, or any of its partners, principals, members, associates or key employees (as that term is defined herein), within the last ten years, has been indicted on or had charges brought against it or them (if still pending) or convicted of any crime or offense arising directly or indirectly from the conduct of the firm's business, or whether the firm, or any of its partners, principals, members, associates or key employees, has within the last ten years, been indicted on or had charges brought against it or them (if still pending) or convicted of any crime or offense involving financial misconduct or fraud. If the response is affirmative, the vendor will be asked to describe any such indictments or charges (and the status thereof), convictions and the surrounding circumstances in detail.

In addition, the selected vendor may also be asked to disclose whether the firm, or any of its partners, principals, members, associates or key employees, within the last ten years, has been the subject of legal proceedings as defined herein arising directly from the provision of services by the firm or those individuals. "Legal proceedings" means any civil actions filed in a court of competent jurisdiction, or any matters filed by an administrative or regulatory body with jurisdiction over the firm or the individuals. If the response is affirmative, the vendor will be asked to describe any such legal proceedings (and the status and disposition thereof) and the surrounding circumstances in detail.

For purposes of this provision "key employees" includes any individuals providing direct service to the county. "Key employees" do not include clerical personnel providing service at the firm's offices or locations.

5.0 DISPUTES RELATING TO PROPOSAL PROCESS AND AWARD:

In the event a dispute arises concerning the proposal process prior to the award of the contract, the party wishing resolution of the dispute shall submit a request in writing to the Director of Purchasing. Vendor may appeal the recommended award or denial of award, provided the following stipulations are met:

- a. Appeal must be in writing.
- b. Must be submitted within ten (10) calendar days of the date of the recommended award or denial of award letters.

An appeal of a denial of award can only be brought on the following grounds:

- a. Failure of the County to follow the selection procedures and adhere to requirements specified in the RFP or any addenda or amendments.
- b. There has been a violation of conflict of interest as provided by California Government Code Section 87100 et seq.
- c. A violation of State or Federal law.

Appeals will not be accepted for any other reasons than those stated above. All appeals must be sent to:

Jim Lindley, Director
County of San Bernardino Purchasing Department
General Services Building
777 E. Rialto Avenue
San Bernardino, CA 92415-0760

6.0 PARTICIPATION:

The County desires that the municipalities, school districts, and other tax districts within the state of California, may at their option and through the County Purchasing Agent avail themselves of the contract resulting from this proposal. Upon notice in writing, the Vendor agrees to the extension of the terms of a resultant contract with such Governmental bodies as though they have been expressly identified in this proposal, with the provision that:

- a. Such Governmental body does not have and will not have in force any other contract for like purchases.
- b. Such Governmental body does not have and will not have under consideration for any other contract for like purchases.
- c. Such Governmental body shall make purchases in it's own name, make payment direct to the Vendor, and be liable directly to the vendor, holding the County harmless there of.

7.0 ELECTRONIC FUNDS TRANSFERS:

Vendor shall accept all payments from the County via electronic funds transfer (EFT) directly deposited into the Vendor's designated checking or other bank account. Vendor shall promptly comply with directions and accurately complete forms provided by the County required to process EFT payments.

8.0 LOCAL PREFERENCE POLICY:

The County of San Bernardino has adopted a preference for vendors whose principle place of business is located within the boundaries of the County. A five percent (5%) preference may be applied prior to approval of any purchase or acquisition of services, equipment, goods, or supplies.

For purposes of the application of the local preference policy (County Policy 11-12), "principal place of business" is defined as the vendor's main office (or headquarters) or a major regional office. A "major regional office" is defined as a business location apart from the vendor's main office (or headquarters) which:

- a. Has been issued a business license, if required, and has been established and open for a minimum of six months prior to the date that the approval authority authorizes the circulation of an RFP/RFB/Quote for any contract, agreement, or purchase order to which it responds;
- b. Can demonstrate on-going business activity in the field of endeavor on which the Vendor is proposing, from that office during the preceding six months; and
- c. Has a minimum of twenty-five percent (25%) of the vendor's full time management employees and twenty-five percent (25%) of its full time regular employees working from the County of San Bernardino location(s).

The County's Local Preference Policy means for example, if two Vendors are responding to this RFP and if quality, service and ability to meet the County's needs are equal, County staff must determine if one of the Vendors is a local vendor. If one of the Vendors is a local vendor, and its quoted price or cost for services, equipment, goods or supplies does not exceed five percent (5%) of the other vendor's quoted price or cost, unless it is determined that an exemption applies, staff may recommend the local vendor for the contract award.

SPECIFICATIONS ALL WHEEL DRIVE MOTOR GRADER W/BLADE 32,000 LB			
<p>General: The following specifications describe construction equipment to be used by the Public Works Operations staff, of the San Bernardino County, Department of Public Works. The machine will be a model built by a well-established manufacturer of this type of machinery. <u>Please note this specification is based on one manufacturer's design. The intent of the department is not to limit or eliminate proposals, but to start with a buildable set of specifications.</u> In the event of major failure during the warranty period, the vendor will furnish or reimburse the County for the transportation of the machinery to the vendor's place of business for repairs.</p>			
<p>The specifications herein shall not be construed in any way to mean the degrading or elimination of accepted standards of engineering and craftsmanship in configuration and construction. ALL EXCEPTIONS to the specifications contained herein must be on the Proposal Sheet or attachment shall be clearly stated with detailed information on the pro's and cons of the exception to be considered at the time of award. All subcontractors or suppliers and vendors of attachments to this unit must be listed on the bid sheet. Vendor to be the sole responsible party for equipment, attachments and specialized components.</p>			
<p>Warranty: The entire unit(s) and its attachments, as specified, shall be fully warranted from date of acceptance for a minimum of fifteen hundred (1,500) hours, no exceptions, excluding consumable items such as oil and filters, and normal wear items such as belts, hoses, cutting edges, etc. Manufacturers' standard warranty shall accompany the vehicle, together with all the information required by the manufacturer on the warranty form.</p>			
<p>County staff may perform authorized warranty repairs and receive reimbursement for travel, labor and parts.</p>			
<p>Safety: The successful vendor must certify that they will meet all existing regulations contained in the State of California Construction Safety Orders and/or OSHA at time of acceptance, for this type of machinery, all applicable South Coast Air Quality Management District Regulation, Fire Codes, Forestry Regulations, DMV or any other applicable laws or regulations for on- or off-road, and day or night operation.</p>			
<p>State where the unit is being manufactured.</p>			
<p>If equipment does not meet minimum specifications, vendor will be required to make necessary correction at their expense.</p>			
<p>List the locations of available replacement parts and normal time required for delivery of such parts with bid. Vendor shall guarantee replacement parts and make sure that they are available within 48 hours or less. If parts are not available in this time period, vendor shall reimburse the County for the cost of renting a machine until the part arrives.</p>			
<p>Supply a list of recommended parts to stock and a published price list with bid.</p>			
<p>Delivery: Prior to delivery, new vehicle must be completely serviced in accordance with the standard new vehicle "made ready" and the manufacturer's recommendations. Signed document shall be supplied.</p>			
<p>Fuel tank to be filled. Unit delivered to the Public Works Department at 210 N. Lena Rd., Building 6C, San Bernardino, CA 92415-0835.</p>			

SPECIFICATIONS ALL WHEEL DRIVE MOTOR GRADER W/BLADE 32,000 LB			
State maximum hours on unit at time of delivery.			
Vendor: The successful vendor may contact the Operations Equipment Superintendent prior to delivery so that arrangements can be made for pre-delivery inspection on vendor's premises. (If outside a 100-mile radius from San Bernardino site, vendor shall pay travel and meal expenses for two people (quote costs separately - notification shall be 30 days in advance). Under no circumstances will a partial delivery of accepted specifications be made. The vendor shall also make available qualified service and operational personnel for post delivery familiarization with the Operations' personnel. The vendor shall include a revisit to the equipment approximately 30 days after it is placed in service. The revisit shall include checking all operating systems for proper operations, adjustments, leaks, or any other defects, at no additional cost to the County.			
Notice: <ol style="list-style-type: none"> 1. Vendor shall complete the right-hand column indicating specific size and/or make and model of all components when not exactly as specified. State "AS SPECIFIED" if item is exactly as set forth in the left-hand column. 2. Proposal pricing shall remain open for a 12-month period from date of award, after the 12-month period has elapsed, the proposal may, at the County's option and with agreement of the Manufacturer/Vendor, remain open for a maximum of three years. The annual price increase shall not exceed the US Department of Commerce price index or documented manufacturer's price increases for the type of equipment proposed. 3. An original and five copies of the proposal will be provided, the wet signature copy marked "Original" with the remainder marked "Copy #1 through #5". 4. All proposal sheets, drawings, warranties and any supplemental proposals shall bear the signature of the company representative and the company seal. 5. Any changes to equipment specifications and or delivery dates from an awarded proposal must be made in writing on company letterhead and approved by the Purchasing Agent prior to any action on the part of the vendor. 6. Award will be made on "Life cycle" cost projection; vendor may be required to provide additional information to enable the County to evaluate equipment life. Failure to provide additional information requested in a timely manner will result in Non Responsive Status. <ol style="list-style-type: none"> a. Life cycle will be the unit cost with attachments plus 8,000 hours times hourly fuel costs plus 8,000 hours times hourly maintenance costs subtracted guaranteed repurchase at 8,000. Additional items figured in may include but are not limited to: <ol style="list-style-type: none"> i. Additional parts needed to stock ii. Additional tools or diagnostic tools iii. Additional mechanical and parts training iv. Additional shipping costs to obtain parts v. Operator training/production b. Please note that the reference that will be used to obtain fuel and operating costs will be "Cost Reference for Construction Equipment, Blue Book Rental Rate (Copyright 2004 Primedia Business Magazines & Media Inc.)" 			

SPECIFICATIONS ALL WHEEL DRIVE MOTOR GRADER W/BLADE 32,000 LB			
c. Fuel rate posted will be calculated at 1.5 times the value rated stated in reference d. Mechanic labor will be calculated at two times the value rated stated in reference e. Mechanic lube will be calculated at two times the value f. Comparison will be based on the unit bid. If the same size unit is not available, comparison will be done from next larger unit. g. Additional data from the Blue Book Rental Rate to be reviewed will be as follows: i. Model/year/descriptions ii. Bucket/blade capacity iii. Horsepower iv. Shipping weight/operating weight v. Economical hours vi. Depreciation vii. Total operating costs per hour which will consist of: 1. labor 2. parts 3. fuel 4. lube 5. tires/wheels 6. ground engaging tools			
Selection of unit will be made by evaluating life costs of the unit, safety, production level of unit and operators, training need to operators and technicians, needed parts and tool assets, etc.			
Vendor shall attach with bid the names, phone numbers and type of application of all users of the bid model. Failure to supply may result in a rejection of proposal.			
Vendor, upon request, shall deliver a machine to San Bernardino location so it can be operated and evaluated by a selection committee.			
GUARANTEED REPURCHASE not to exceed at 4,000 hours or 8,000 hours (no other timeframes or restrictions, hours only). The vendor agrees to repurchase the equipment for the price stated in this proposal, if requested by the County, providing that the equipment is in normal working condition. The option to exercise the repurchase guarantee is reserved to the County 4,000 operation hours or 8,000 operation hours. In exercising the repurchase option, the County agrees to give the vendor 60 days notice in advance of the repurchase time and vendor agrees to execute the repurchase within 30 days after the repurchase date is set. A Certified Performance Bond Guarantee will be required to be submitted to purchasing within 10 business days of receiving the purchase order. Purchase order will be void and canceled if the Performance Bond is not received by the Purchasing Department before the end of the 10th business day. The County of San Bernardino has the option to sell to another party if it feels that the value of the unit exceeds the guaranteed repurchase price at 8,000 hours. FAILURE TO BID THIS ITEM WILL RESULT IN A REJECTION OF THE PROPOSAL.			

FAILURE TO COMPLETE THE RIGHT-HAND COLUMN WILL INVALIDATE THIS PROPOSAL

	YES	NO	COMMENTS
1. <u>BASE MACHINE:</u> a. The machine shall have a length of approximately 400". Height approximately 130", width of 8' 6" and weight minimum 32,000 lbs. Include base machine, lubricants, and full fuel tank.			
2. <u>ENGINE:</u> a. Engine shall be designed and built by the machine manufacturer. b. Engine shall be tier three compliant, six-cylinder, diesel. c. Engine displacement shall not be less than 638" (10.5L). d. Engine shall develop a rated net flywheel power of at least 180 HP (112kW). e. Torque rise shall not be less than 30 percent. f. Variable horsepower shall be available to increase engine power to at least 195 HP in the higher gear ranges for more productivity. g. Engine arrangements meeting current and proposed emission regulations of the Environmental Protection Agency and California Air Resources Board shall be available. h. Forestry approved spark arrestor. i. Live oil sample port.			
3. <u>ELECTRICAL SYSTEM:</u> a. 100 AMP Alternator – 24 volt system with diagnostic connectors for monitoring, starting, and charging circuits. 24 to 12 volt converter for 800 MHz – County Radio system. 35 AMP with a key shut-off at the batteries.			
4. <u>TRANSMISSION/ POWER TRAIN:</u> a. Electronic – Power shift transmission, capable of making repeated speed and directional changes at full torque, with eight speeds forward and six reverse. b. Should have a transmission neutralizer cut-out switch allowing left foot breaking only while operator's right foot simultaneously stays on accelerator to provide machine inching capability. c. Minimum to travel speeds of; forward 25 mph and reverse 20 mph. Shall have five working gears between 0-10 mph in both directions. Transmission shall have electronic over-speed protection. d. Live oil sample port. e. All shifting shall be controlled via one joy stick.			
5. <u>ALL WHEEL DRIVE:</u> a. Radial piston hydraulic motors shall power the front wheels. Heavy duty steel housing canister type filter (charge). b. Effective speed range of AWD system shall be no less than 0-17.6 mph (28.3 km/h). c. With AWD engaged, the Variable Horsepower System (VPH) shall provide higher engine power in all gear ranges. d. Three modes of AWD operation shall be provided; off, manual, and automatic. e. In manual mode, the operator shall have full control for the torque level to the front wheels. f. In automatic mode, the AWD system automatically			

	YES	NO	COMMENTS
increases torque to the front wheels as rear wheel slip increases. Machine shall be equipped with true ground speed radar for determining rear wheel slip.			
6. <u>STEERING AND BRAKES:</u> a. Front wheel steering angle shall be no less than 50 degrees to the right and left and a maximum lean of no less than 18 degrees. Two cylinder hydraulic steering, minimum turning radius 25'. Shall be equipped with steering stops at each wheel. Shall have supplemental steering and braking system that functions in the event of a complete loss in hydraulic power. Two independent braking systems are required. b. <u>SERVICE BRAKE SYSTEM</u> – Air-hydraulic actuated, multi-disc brakes are enclosed, and adjustment-free. Two brake pedals will allow standard braking with the right pedal and braking and transmission neutralization with the left pedal. System shall have a low fluid warning light. There shall be a provision to check the service break wear without removing or disassembling the brake assembly. c. <u>PARKING BRAKE SYSTEM</u> – Operator applies manually and shall neutralize the transmission. Shall be serviceable without removing the transmission. d. <u>SECONDARY BRAKE SYSTEM</u> – Separate circuits to right and left tandems Dual Air Chamber. When air pressure drops, electronic monitoring system alerts the operator.			
7. <u>HYDRAULICS:</u> a. Hydraulic system shall be closed center, load sensing type with a variable displacement piston type pump. b. The hydraulic pump shall produce at least 48 gpm (181 L/m) of oil flow at rated engine speed. c. Hydraulic valves shall be designed and built by the machine manufacturer. d. Implement valves shall be proportional priority pressures compensating type for consistent response. e. Lock valves shall be integrated into all implement circuits to prevent dirt. f. Blade front lift cylinders. Blade shall have independent float capability. g. There shall be a provision to install up to 14 modulating hydraulic valves with seven control levers on each side of the adjustable control console. h. Hydraulic system shall have a separate oil tank (i.e. – not combined with the power train oil system). Live oil sample port. i. All implement hydraulic connections shall have O-ring face seals for leak prevention. j. Heavy duty hoses. k. Removable guard for under cab hydraulic control valves and lines.			
8. <u>MOLDBOARD:</u> a. The moldboard shall be at least 14' long, 24" (610 mm) high and no less than 7/8" (22mm) thick. b. A 1" (25.4 mm) thick moldboard with a height of at least 27" (686 mm) shall be available for severe applications. c. Moldboard shall be constructed of wear-resistant, high carbon steel. d. Moldboard shall be reinforced by two heavy box sections,			

	YES	NO	COMMENTS
<p>continuously welded.</p> <p>e. Side rails should be hardened, continuously welded and have replaceable bronze-alloy wear inserts, top and bottom.</p> <p>f. Moldboard shall have a maximum bank slope angle of 90 degrees to both sides.</p> <p>g. Moldboard shall have a hydraulic tip control through a range of 40 degrees forward, and 5 degrees after to both sides.</p> <p>h. Throat clearance with standard moldboard should be at least 4.6" (116 mm) with blade at a 0 degree tip.</p> <p>i. A blade lift accumulator to protect the moldboard from vertical impacts shall be part of the system.</p>			
<p>9. CAB:</p> <p>a. ROPS cab shall meet current OSHA and MSHA standards for operator safety. The cab shall have two interior mounted rear view mirrors, standard gauges and indicator switch monitor critical operational systems of the machine and alert the operator when potential problems occur with both visual and audible warnings. Multiple position steering wheel, sound suppression not to exceed 85 DBA, with factory installed (NO EXCEPTIONS) air conditioner, pressurized and heater/defroster, and sun visor. Maximum allowable tint on all glass.</p>			
<p>10. OPERATOR STATION:</p> <p>a. Interior sound levels shall not exceed 85 D.B.A (using SAEj919JUN 86 standards).</p> <p>b. The entire control console, with steering wheel and all implement control levers, shall be infinitely adjustable before and as a single unit.</p> <p>c. A three-level warning electronic monitoring systems (EMS) shall be provided to monitor machine functions.</p> <p>d. Gauges shall include coolant temperature, fuel level, frame articulation and hour meter.</p> <p>e. A speedometer and tachometer group shall be installed.</p> <p>f. A cloth-covered, contour suspension seat with fold-up armrests, retractable seat belts with adjustments for arm position, seat height, operator weight, seat back angle, thigh support and lumbar support.</p> <p>g. A 40,000 BTU/hr heater with integral pressurizer and three speed fan shall be available.</p> <p>h. A 27,500 BTU/hr air conditioner with 134a refrigerant shall be available. Controls and ducts shall be integrated into the heater unit.</p> <p>i. Adjustable vents shall be positioned to direct air to lower front windows and operator.</p> <p>j. Opening lower front windows shall be available for ventilation.</p> <p>k. Cab doors shall have a hold-open clasp with a ground-level release in addition to a release in the cab.</p> <p>l. Cab shall have wipers with washers on the upper and lower front windows. Rear window shall also have a wiper unit.</p> <p>m. Radio ready arrangements including 24-volt to 12-volt converter, two speakers, antenna and wiring shall be installed.</p> <p>n. Fire extinguisher mounted in cab (five lb.).</p>			

	YES	NO	COMMENTS
11. <u>CIRCLE AND DRAWBAR:</u> a. Drawbar shall be "Y" type design with solid beam construction. b. The circle shall be supported by the drawbar with at least six support shoes providing vertical and horizontal adjustment. c. The circle and drawbar wear strips shall be replaceable, drop-in inserts made from a nylon plastic material. d. Circle diameter shall be no less than 60.25". e. The circle shall be rolled-ring forging for the toughness, with raised wear surfaces on the top and bottom. f. Circle shall be rotated by hydraulically driven motor. g. The teeth surfaces shall be hardened on the front degrees of circle. h. A circle drive slip clutch shall be available to reduce horizontal moldboard impact damage. i. Blade lift and side-shift cylinders shall have replaceable wear inserts in the ball sockets.			
12. <u>LIGHTS:</u> a. Wig- Wag lights mounted on top four corners with four control settings (instead of strobe lights) (or comparable light bar system – state manufacturer, model, and attach literature with bid).All LED lights Slow moving vehicle emblem mounted on rear of machine – wing nut detachable.			
13. <u>FRAME AND ARTICULATION:</u> a. Front frame shall be of flanged single box construction. The top and bottom of the sections shall be continuous plates running from the front bolster to the articulation joint. b. The rear frame shall have two box section channels integral with a fully welded differential/final drive case. c. The lower articulation joint shall have shim-adjustable tapered roller bearings for long life d. The articulation joint shall have a remote mounted lube point for easy access. e. Articulation joint shall have a mechanical locking device to prevent frame articulation while servicing or transporting machine.			
14. <u>OTHER EQUIPMENT:</u> a. Vandalism Protection: Locking caps for exhaust stack, hydraulic tank, radiator crankcase, transmission filler spout and transmission dipstick. b. Guards: Crankcase for protection of engine oil pan, power train to protect bottom of transfer case and rear drive shaft. c. Air Horn: Front warning. d. Three centralize manual lube blocks - Front (front end) - Center (blade) - Rear (articulation and rippers) e. A Ripper shall be designed by the machine manufacturer shall be available. - Ripper shall mount behind the rear of the unit. - Ripper shall have a provision for 9 teeth, working width of not less than 91" and a minimum scarifying depth of 11.1" (282 mm). f. Snowplow protection group with brake line covers, battery			

	YES	NO	COMMENTS
<p>box protection, engine compartment air intake and covers for engine enclosures louvers shall be supplied.</p> <p>g. MISCELLANEOUS:</p> <ul style="list-style-type: none"> - Seat: Suspension, fully adjustable with seat belt. - Air system dryer required. - Two outside and two inside mounted convex mirrors. - Full engine enclosures. - Full gauge group. - Tinted safety glass. - Forward warning horn. - Reverse alarm and light. - Windshield washer/wiper front and rear. - Air cleaner service indicator. - Transmission oil temperature indicator. - Engine oil pressure gauge and audible alarm. - Park brake indicator. - Brake air pressure gauge and audible alarm. - Quick drain ecology system. <p>h. 100 Gallon fuel tank (lockable)</p>			
<p>15. TIRES AND WHEELS:</p> <p>a. Six tires and wheels. Non-directional tread design, Michelin tread design or comparable (and must have a recappable pattern 14 x 24 12 PR). If unit has different sized wheels and or tires, a spare tire and wheel of each type will be supplied.</p>			
<p>16. SNOWPLOW BLADE AND ATTACHMENT: <u>Quote separately, and state manufacturer name and model.</u></p> <p>a. Snowplow blade and attachment and controls unit shall mount to the front push block frame of the grader. Shall have up and down pressure and float circuit controlled hydraulic from cab, changeable cutting edges, and hydraulic turn from right to left.</p> <p>Shall mount with quick disconnect device (screw type quick connect fittings). Ten minute maximum install or removal utilizing one person. This unit shall be of proper weight and strength to operate on bid unit.</p> <p>b. Hydraulic Angle – Henke Model REL 10 heavy duty plow or equal. The front plow shall be a heavy duty hydraulically reversible, industrial snowplow specifically designed for installation on either a wheel loader or motor grader. For maximum effectiveness in packed snow and ice, the entire plow assembly shall be designed to transfer down pressure to the cutting edges. Plow's which are not designed to accept down pressure, but depend solely on the weight of the plow for down pressure are not acceptable. Heavy-duty canister spring trips allow the moldboard to clear roadway obstructions, and automatically reset to the plowing position. The weight of the entire front plow assembly, without coupler or options, shall exceed 3,200 lbs.</p> <ul style="list-style-type: none"> - Moldboard Assembly: Shall be 41" high and ¼" thick rolled steel plate, box panel design with eight (8) vertical ½" x 5" bottom angle with ten rectangular gussets. Bottom angle will be AASHO standard punch and include a two section. ¾" x 6" x (10,12,14 or 16') cutting edge installed with 5/8" standard plow bolts. - Push Frame Assembly: Shall be formed from a 			

	YES	NO	COMMENTS
<p>single piece of ½" plate, ASTM 572 grade 50, minimum yield strength of 50,000 PSI, reinforced with ½" gussets and ¾" plates. Pivot pin shall be 2 ½" x 24" solid steel installed in a lubricated bushing. Push frame shall attach to reinforced bushings on moldboard ribs with three, 2" diameter steel pins.</p> <ul style="list-style-type: none"> - A-Frame Assembly: Shall be constructed of heavy 4" ship channel and mounted to a flat ¾" x 34" x 62" plate to facilitate coupler mounting of the customer's choice. - Hydraulic Reverse: Shall use dual 4-½" x 11" double acting hydraulic cylinders connected by ½", 5,000 PSI hydraulic hose to hydraulic quick couplers mounted to the A-frame. - Dual Canister Trips: Shall be canister enclosed compression type springs, exerting a minimum of 6,000 lbs. of force at full compression, with cushion spring return. - Adjustable Running Gear Assembly with Mushroom Shoes: Shall be assemble housed by structural tubing of 3 ½" square with a 3/16" thick wall welded to a ½" x 6" x 9" mounting plate. An internal tube of 3" with a ¼" ACME threaded rod, which allows for height adjustment. Shall include a caster nut lock and adjustment wrench with holder. Heavy-duty cast mushroom shoes shall be installed. - All controls shall be ergonomically set for continuous 12 hour operation. 			
<p>17. WORKMANSHIP:</p> <p>a. All workmanship, including fabrication, welding, modifications, painting, etc., to be in the best manner of the trade and shall be subject to inspection and approval by the County.</p>			
<p>18. PAINT: <u>Quote separately, if additional above manufacturer standard paint.</u></p> <p>a. Entire machine and attachments shall be painted Omaha Orange.</p>			
<p>19. OPERATOR EXPOSURE NOISE:</p> <p>a. Shall comply with the Occupational Safety and Health Act (OSHA) sound level (d.b.a.) requirement in effect at the time of award of contract, for an eight-hour maximum operator exposure time; measured at operator's ear with engine at governed RPM, all in accordance with SAE J1166.</p>			
<p>20. SNOW ARRANGEMENTS:</p> <p>a. Snow arrangement, A/C – Includes:</p> <ul style="list-style-type: none"> - Alternator, 100 amp - Lights, Cab - Lights, (work) 2 front, 2 rear, 2 front on unit, 2 moldboard bottom of cab. - Provision, Warning light - Air conditioner/heater - Fan, defroster, front window - Fan, defroster, rear window - Mirrors, Outside mounted - Speedometer/Tachometer - Auto-shift, transmission - Air-dryer 			

	YES	NO	COMMENTS
<ul style="list-style-type: none"> - Batteries, 1300 amp - Starting Aid, Ether - Heater, Engine Coolant - REQUIRED ATTACHMENTS: - Wiper/Washer, rear , low cab - Blade, 14' x 27" x 1" 			
21. OTHER SNOW EQUIPMENT: a. Protection, Tire Chains—Brake line covers, heavier battery box covers, and a mounting provision for the air dryer (not included) inside the fan compartment. Protects against tire chain damage. Fuel tank protector or added guarantee. b. Snow chain storage or rack.			
22. MANUALS: <u>Quote separately.</u> At time of delivery, a total of three (3) complete and accurate sets of shop manuals and parts books (engine included) for each model shall be supplied. Also furnish three (3) operators manuals for the machine.			
23. MISCELLANEOUS: a. Certified Weight Master weight certificate and certificate of Origin to be delivered with the unit on the day of delivery b. Completed vehicles component form. c. Two (2) lubrication charts, and two (2) permanently labeled on the unit.			
24. COMPUTERS: <u>Quote separately.</u> Three laptop computers with parts and service manuals and diagnostic program of engine, transmission and all wheel drive (AWD) system.			
25. TRAINING SCHOOL: The Successful bidder shall, at the time of equipment delivery, provide a minimum of eight hours training school for mechanics and service personnel at no cost to the County. Also, a minimum of 24 hours of operation instruction at San Bernardino County site by qualified trainer(s), two operators per machine will be trained. Vendor shall supply a VHS/DVD tape on proper safety and operation maintenance of unit. Vendor shall provide a detailed itinerary of training with the bid. Minimum of two sessions of eight hour training for mechanics			
26. PARTS AND SERVICE: a. Parts and service shall be available locally (Inland Empire) within a 60 mile radius and 24 hours of 825 E. Third Street, San Bernardino, CA 92415. b. Parts delivery service to be delivered at 6 AM and 12 Noon to 1 PM. c. Vendor shall provide written documentation of mechanics training and years of working and or supplying parts on AWD model quoted with bid package.			

PROPOSAL SHEET

DELIVERY _____ DAYS. EACH AT \$ _____

WARRANTY _____

MAKE _____

MODEL _____

OPTIONS:

VENDOR SHALL QUOTE PRICING SEPARATELY TO PROVIDE UNIT WITH THE FOLLOWING:

1. Please list with a quoted price Warranty Options, in addition to Standard.
2. AM/FM Stereo, slip in unit (12 Volt): (detachable face with inverter) \$ _____
3. Paint Unit (Omaha Orange) \$ _____
4. Front mounts and cab controls for snow blade \$ _____
5. Snowblade only \$ _____
6. Guaranteed – Repurchase Price at three years/4,000 hours \$ _____
7. Manuals (price per set) \$ _____
8. Spare tire and wheel \$ _____
9. Laptop (per unit) \$ _____

\$100.00 PER BUSINESS WORKING DAY PENALTY
FOR LATE DELIVERY OF UNIT (PER UNIT)

San Bernardino County
Department Of Public Works
Vehicle Master File

VEHICLE FILE MAINTENANCE

1. Unit Number	:	_____	Dept. #	_____	21. Tire Ply, etc.	:	_____	Psi:	_____
2. Veh. Year - Make	:	_____ - _____			22. Lugs	:	_____		
3. Vehicle Model	:	_____	Sz:	_____	23. State Inspect.	:	_____		
4. License Plate	:	_____	Class:	_____	24. Unit GVW	:	_____		
5. Serial Number	:	_____			25. Wheel Base	:	_____		
6. Location	:	_____			26. Alternator Mk.	:	_____	Amps	_____
7. Operator	:	_____			27. Brakes	:	_____		
8. Registration #	:	_____			28. Steering	:	_____		
9. Odometer Units	:	_____	Fuel:	_____	29. Spec. Body Mk.	:	_____		
10. Date Purchased	:	_____	Insrvc:	_____	30. Spec. Body Md.	:	_____		
11. Engine Make	:	_____			31. Spec. Equipmt.	:	_____		
12. Engine Model	:	_____			32. *Purchase Price	:	_____		
13. Transmis. Make	:	_____			Current Value	:	_____		
14. Transmis. Model	:	_____			33. Trade in Value	:	_____		
15. Rear End Make	:	_____			34. Deprec./Perd.	:	_____	/pd for	_____ Pd
16. Rear End Cap	:	_____	Tons.	_____	35. License/Year	:	_____	/yr or	_____ /pd
17. Front Axle	:	_____			36. Insranc/Year	:	_____	/yr or	_____ /pd
18. Wheel Size	:	_____			37. License Expir.	:	Pd: _____	every	_____ pds
19. Tire Size	:	_____			38. Fuel X-Ref. #	:	_____		
20. Eng. Horsepwr	:	_____			39. Bucket Cu. Yd.	:	_____		

*Total Number of Periods to Depreciate: _____

SAN BERNARDINO COUNTY
Department of Public Works
Transportation/Flood Control
Vehicle Maintenance Master File

COMPONENT	RECOMMENDED SERVICE INTERVALS	OIL VISCOSITY/TYPE	REFILL CAPACITIES	FILTER/PART NUMBERS
ENGINE				
TRANSMISSION				
TRANSFER CASE				
PTO GEAR BOX				
AUX. GEAR BOX				
DIFFERENTIALS				
FINAL DRIVES				
HYDRAULIC SYSTEM				
CIRCLE DRIVE GEAR BOX				
INTAKE SYSTEM				
COOLING SYSTEM				
OTHER				

TIRE SPECIFICATIONS

TIRE POSITION	TIRE SIZE	TREAD DEPTH (NEW)	TIRE INFLATION (PSI)	WHEEL NUT TORQUE